

Applicant : Kuang-Lieh Lu et

Attorney's Docket : 08919-070001 / 03A-900602

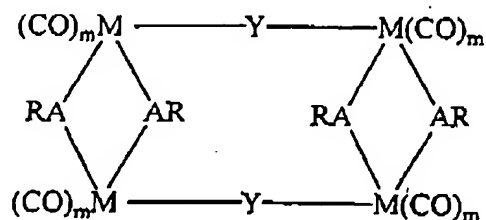
Serial No. : 10/057,029

Filed : January 24, 2002

Page : 2 of 7

In the claims:

1. (Currently Amended) A rectangular supramolecule having the following structure:



wherein

M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os;

Y is a nitrogen-based didentate ligand;

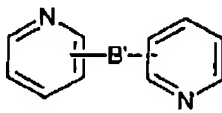
A is O, S, Se, or Te;

R is C₃~C₁₆ alkyl, (CH₂)_n-aryl, or (CH₂)_n-aryl-(O-C₁~C₁₆ alkyl)_p, in which n is 0-15, p is 1-3; and

m is ~~1, 2, 3, 4, or 5~~ 1-5.

2. (Original) The rectangular supramolecule of claim 1, wherein M is Re.
3. (Original) The rectangular supramolecule of claim 2, wherein m is 3.
4. (Original) The rectangular supramolecule of claim 1, wherein R is C₃~C₁₆ straight chain alkyl.
5. (Original) The rectangular supramolecule of claim 1, wherein A is O.

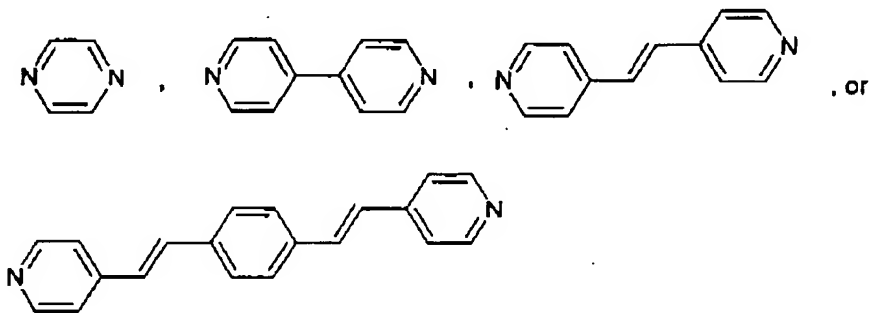
6. (Original) The rectangular supramolecule of claim 1, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alknyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

7. (Original) The rectangular supramolecule of claim 6, B' is a bond, alkenyl, alknyl, or aryl.

8. (Original) The rectangular supramolecule of claim 6, wherein Y is

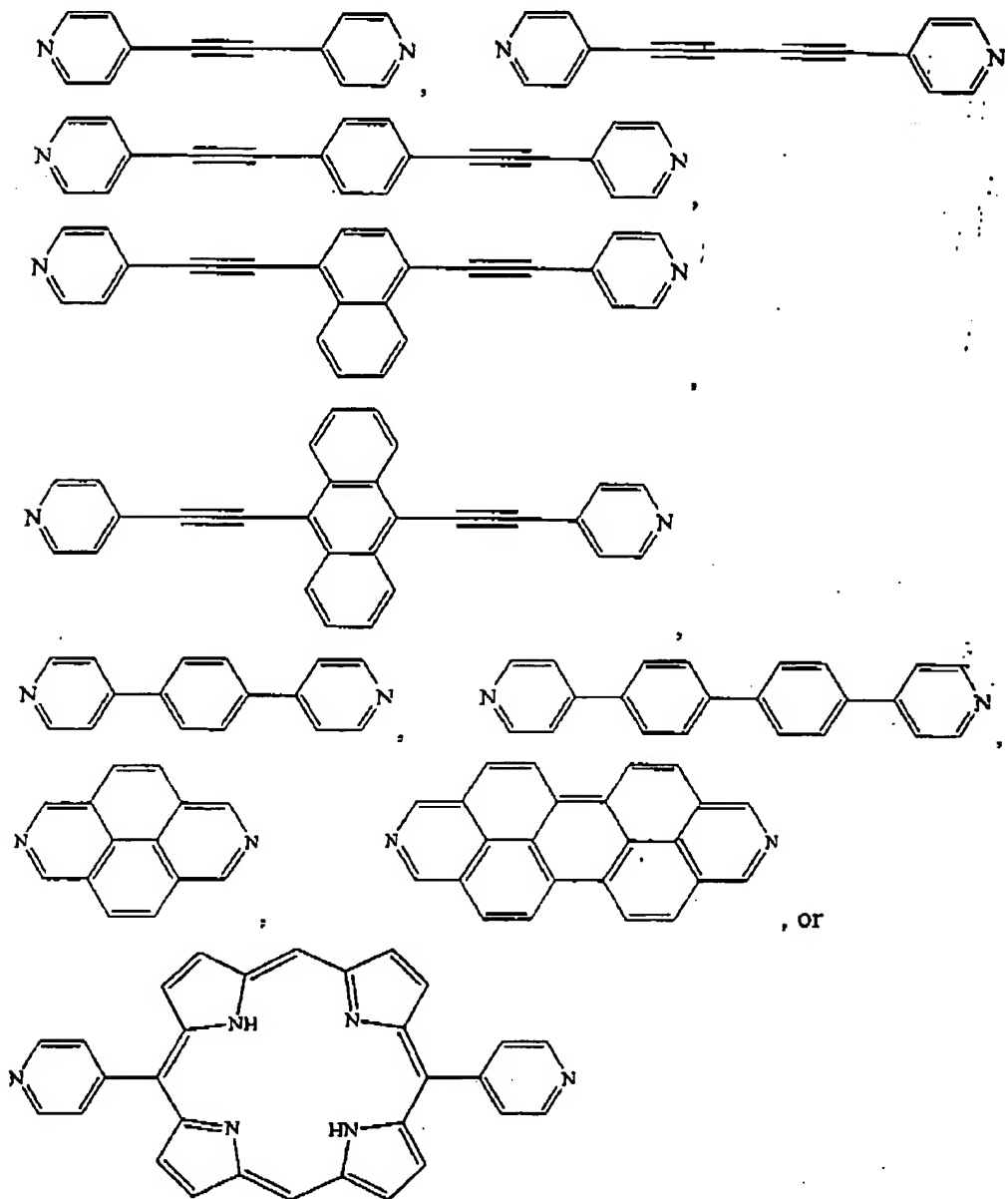


9. (Original) The rectangular supramolecule of claim 6, wherein M is Re, and m is 3.

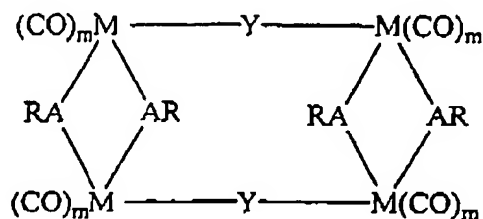
10. (Original) The rectangular supramolecule of claim 6, wherein R is C₃~C₁₆ straight chain alkyl.

11. (Original) The rectangular supramolecule of claim 6, wherein A is O.

12. (Original) The rectangular supramolecule of claim 6, wherein Y is



13. (Currently Amended) A method for making a rectangular supramolecule having the following structure:

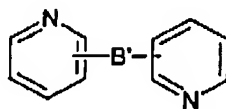


wherein M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os; Y is a nitrogen-based didentate ligand; A is O, S, Se, or Te; R is $C_1\sim C_{16}$ alkyl, $(CH_2)_n$ -aryl, or $(CH_2)_n$ -aryl- $(O-C_1\sim C_{16}$ alkyl) $_p$, in which n is 0-15, p is 1-3; and m is ~~1, 2, 3, 4, or 5~~ 1-5;

the method comprising:

reacting $M(CO)_{m+2}$ with a nitrogen-based didentate ligand in the presence of an RAH at an elevated temperature to form the rectangular supramolecule.

14. (Original) The method of claim 13, wherein M is Re and m is 3.
15. (Original) The method of claim 13, wherein RAH is a $C_1\sim C_{16}$ aliphatic alcohol.
16. (Original) The method of claim 13, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

Claims 17-21. (Cancelled)